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(57) Abstract :

Disclosed herein is an integrated mobility and vehicle service orchestration system (100), the system (100) comprises a user device (102) configured to acquire user inputs, a processing unit (106) configured to process real-time data, which further comprises a data input module (108) receives real-time data, a pre-processing module (110) cleans, normalizes, and reduces noise, a feature extraction module (112) extracts relevant operational features, a trip planning module (114) plans optimized trip routes and timelines, a service orchestration module (116) schedules and sequences aligned services, a priority management module (118) assigns priority levels and determines execution order, a dispatch module (120) assigns suitable service providers, a tracking module (122) monitors provider locations and service execution, a dynamic rescheduling module (124) updates schedules and reassigns providers, a transaction module (126) calculates charges, processes payments, and generates consolidated invoices, an output module (128) to transmit real-time updates, service execution results, and billing information.

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